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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/778,088		02/07/2001	Nobutaka Ishidera	1086.1137/ J DH	4568
21171	7590 08/04/2004			EXAMINER	
STAAS &		Y LLP	CAO, CHUN		
SUITE 700 1201 NEW YORK AVENUE, N.W.				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005				2115	<u> </u>
				DATE MAILED: 08/04/2004	8

Please find below and/or attached an Office communication concerning this application or proceeding.



			1
	Application No.	Applicant(s)	in
Office Action Comments	09/778,088	ISHIDERA, NOBUTAKA	
· Office Action Summary	Examiner	Art Unit	U
	Chun Cao	2115	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed /s will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 27 Ma	ay 2004.		
	action is non-final.		
3) Since this application is in condition for allowan	ce except for formal matters, pro	osecution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-32 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or			
Application Papers			
9) The specification is objected to by the Examiner	·.		
	epted or b) objected to by the		
Applicant may not request that any objection to the c			
Replacement drawing sheet(s) including the correcti 11) The oath or declaration is objected to by the Ex-			
		77.00.077 07 10777 10 102.	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the prior application from the International Bureau 	s have been received in Applicati ity documents have been receive		
* See the attached detailed Office action for a list of	, , , ,	ed.	
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)	
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FINAL REJECTION

1. Claims 1-32 are presented for examination. Claims 30-32 are newly added claims

- 2. The text of those applicable section of Title 35, U.S. Code not included in this action can be found in the prior Office Action.
- 3. Claims 1, 2, 7, 9-11, 16, 18-20, 25 and 27-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kulakowski et al. (Kulakowski), U.S. Patent No. 6,418,535 in view of Orton et al. (Orton), U.S. Patent No. 6,118,306.

As per claim 1, Kulakowski discloses a software processing apparatus comprising:

an operating environment determining unit which determines whether an operating environment requires power saving or not [abstract all; col. 3, lines 3-6; figs. 1A and 1B];

a switch unit [col. 3, lines 7-14] which performs a process of heavy load for a CPU [col. 3, lines 39-48] in a first environment which does not require power saving and performs a process of light load for said CPU in a second environment requiring power saving [abstract all; col. 4, lines 43-50].

Kulakowski does not explicitly disclose that an automatic CPU clock adjusting unit which causes a decrease in a CPU clock to the lowest level necessary in response to a throughout required to said CPU.

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However, Orton discloses that an automatic CPU clock adjusting unit which causes a decrease in a CPU clock to the lowest level necessary in response to a throughout required to said CPU [col. 2, lines 11-27].

It would have been obvious to one of ordinary skill in the art at time the invention to combine the teachings of Kulakowski and Orton because the specific teachings of Orton states above would further improve the power consumption of Kulakowski system by lowering the CPU clock.

As per claim 2, Kulakowski discloses that operating environment determines a status where the apparatus operates on an external power supply as said first environment, and determines a status where the apparatus operates on a battery as said second environment [abstract all; col. 3, lines 3-15].

As per claim 7, Kulakowski discloses that a setting unit of setting the switching between said process of heavy load and said process of light load to be valid or invalid [98, fig. 5; col. 5, line 57-col. 6, line 9].

As per claim 9 is written in mean plus function and contained same limitations as claim 1, therefore same rejection is applied.

As to claims 10-11, 16, 18 and 31-32, Kulakowski and Orton together teach the claimed system. Therefore, Kulakowski and Orton together teach the claimed method of steps to carry out the system.

As to claims 19-20, 25 and 27-30, Kulakowski and Orton together teach the claimed system. Therefore, Kulakowski and Orton together teach the claimed recording medium to carry out the system.

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4. Claims 3-6, 8, 12-15, 17, 21-24 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kulakowski et al. (Kulakowski), U.S. Patent No. 6,418,535 in view of Orton et al. (Orton), U.S. Patent No. 6,118,306 as applied to claim 1, further in view of Nakaya et al. (Nakaya), US patent no. 5,949,484.

As per claim 3, Nakaya discloses that processing of light load is a process obtained by simplifying said process of heavy load [col. 3, lines 48-56].

It would have been obvious to one of ordinary skill in the art at time the invention to combine the teachings of Kulakowski and Orton and Nakaya because they teach of power consumption for a system, and the specific teachings of Nakaya states above would further improve the power consumption of Kulakowski system by simplifying a process of a heavy load.

As per claim 4, Nakaya discloses that simplified process is a part of said process of heavy load [col. 3, lines 48-56].

As per claim 5, Nakaya discloses that simplified process is a process of using data obtained by processing data used in said process of heavy load [col. 3, lines 48-56].

As per claim 6, Nakaya discloses that simplified process is another process realizing the same function as that of said process of heavy load [col. 3, lines 48-56].

As per claim 8, Nakaya discloses that process of heavy load and said process of light load are performed by a processor and said processor changes an operation clock frequency in accordance with load of a process [col. 3, lines 31-38].

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As to claims 12-15 and 17, Kulakowski and Orton and Nakaya together teach the claimed system. Therefore, Kulakowski and Orton and Nakaya together teach the claimed method of steps to carry out the system.

As to claims 21-24 and 26, Kulakowski and Orton and Nakaya together teach the claimed system. Therefore, Kulakowski and Orton and Nakaya together teach the claimed recording medium to carry out the system.

- 5. Applicant's arguments in the remark of the amendment filed on 5/27/04, which have been considered but are moot in view of the new ground(s) of rejection.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

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Washington, D.C. 20231

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chun Cao at (703) 308-6106. The examiner can normally be reached on Monday-Friday from 7:30 am - 4:00 pm. If attempts to reach the examiner by phone are unsuccessful, the examiner's supervisor Thomas Lee can be reached at (703) 305-9717. The fax number for this Art Unit is following: Official (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 306-5631.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chun Cao

July 28, 2004

Mrms

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